This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A fuel cell bipolar plate comprising, in combination:
- a first plate having a first surface, an opposing second surface, and a plurality of ribs defining anode flow channels on the first surface of the first plate;
- a second plate having a first surface, an opposing second surface, and a plurality of ribs defining cathode flow channels on the second surface of the first second plate, the ribs of the second plate having a height greater than a height of the ribs of the first plate such that the second plate can be nested with the first plate so as to define a plurality of center flow channels extending between the first and second plates;
- a first edge area at one end of the first and second plates and a second edge area at an opposed end of the first and second plates;
- a plurality of first internal fuel manifolds formed in the first edge area and in fluid communication with the center flow channels;
- a plurality of second internal fuel manifolds formed in the first edge area and in fluid communication with the anode flow channels, and;
- a turnaround plenum formed in the second edge area, the turnaround plenum in fluid communication with the center flow channels and the anode flow channels.
- 2. (Original) The bipolar plate of claim 1, further comprising a catalyst on the first surface of the second plate within the center flow channels.
- 3.(Currently amended) The bipolar plate of claim 1, further comprising an aperture formed in the second seal edge area and fluidly connecting the turnaround plenum with the anode flow channels.

- 4. (Original) The bipolar plate of claim 1, wherein a portion of the second end area is folded over onto itself, and a spacer is positioned within the folded over portion.
- 5. (Original) The bipolar plate of claim 1, wherein the bipolar plate is comprised of a plurality of segments, each segment having a first internal fuel manifold and a second internal fuel manifold.
- 6. (Original) The bipolar plate of claim 5, wherein centers of the first and second internal fuel manifolds of each segment are on a line that extends substantially parallel to a flow path of the bipolar plate.
- 7. (Original) The bipolar plate of claim 1, further comprising a plurality of flat wires positioned on the first surface of the first sheet.
- 8. (Original) The bipolar plate of claim 7, further comprising an electrode positioned on the flat wires.
- 9. (Currently Amended) A fuel cell bipolar plate comprising, in combination:

a plate formed of a first plate and a second plate and comprising plurality of segments, the first plate having a first surface, an opposing second surface, and a plurality of ribs defining anode flow channels on the first surface of the first plate, the second plate having a first surface, an opposing second surface, and a plurality of ribs defining cathode flow channels on the second surface of the first second plate, the ribs of the second plate having a height greater than a height of the ribs of the first plate such that the second plate can be nested with the first plate so as to define a plurality of center flow channels extending between the first and second plates;

a first edge area at one end of the first and second plates and a second edge area at an opposed end of the first and second plates;

a first internal fuel manifold formed in the first edge area of each segment and in fluid communication with the center flow channels;

a second internal fuel manifold formed in the first edge area of each segment and in fluid communication with the anode flow channels, and;

- a turnaround plenum formed in the second edge area, the turnaround plenum in fluid communication with the center flow channels and the anode flow channels.
- 10. (Original) The bipolar plate of claim 9, further comprising a catalyst on the first surface of the second plate within the center flow channels.
- 11. (Currently amended) The bipolar plate of claim 9, further comprising an aperture formed in the second seal edge area and fluidly connecting the turnaround plenum with the anode flow channels.
- 12. (Original) The bipolar plate of claim 9, wherein a portion of the second end area is folded over onto itself, and a spacer is positioned within the folded over portion.
- 13. (Original) The bipolar plate of claim 9, wherein centers of the first and second internal fuel manifolds of each segment are on a line that extends substantially parallel to a flow path of the bipolar plate.
- 14. (Original) The bipolar plate of claim 9, further comprising a plurality of flat wires positioned on the first surface of the first sheet.
- 15. (Original) The bipolar plate of claim 14, further comprising an electrode positioned on the flat wires.

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